## Arthur Morrison

the author of "The Chronicles of Martin Hewlitt," "Tales of Mean Streets," and other stories, has written a brand new series of detective FARMING tales for the

## Illustrated Sunday Magazine

which is issued every week with this paper. The title of the first one is:

> "The Narrative of Mr. James Rigby"

Rex Beach, George Ade, John Kendrick Bangs, Roy Norton, Robert Barr, other equally known writers now at work on stories for the Illustrated Sunday Magazine.

It is good policy never to overlook a single number of the Illustrated Sunday Magazine, because on the day you do, you will be sure to miss one of the best stories of the year.

## WITH DYNAMITE

NE looking for the lates word in agricultural develop ment, should write in capital letters-DYNAMITE.

letters—DYNAMITE.

There is something about the term that is both fearful and fascinating, for a stick of dynamite is one of the most potential things in all the world. Within that putty-like solistance lies the power to rip a garing hole in the hull of a dreadnaught, or to make an Eden of an acre of stump land.

Discover the dynamic for incoming the strength of t

Dismiss the thought of dynamite as a destroyer and give attention to the consideration of its ability as a creator of new and big possibilities in the realm of agriculture.

Farnding with dynamite" is now

in the realm of agriculture.

'Farroing with dynamite" is now a term understood and appreciated, not only by the scientific farmer, but also by the ordinary husbandman, whose knowledge is entirely practical and has come to him through a lifetime, of sun-to-gun toil.

The high browed college faculty gave scientific farming to the tiller of the soil but 'farming with Dynamite" is the property of the less theoretical farmer, by right of discovery. The scientific demonstrator and experimenter has reduced 'farming with dynamite' to more or less of a science but it was the common sense of the farmer himself which suggested the first use of the explosive and practically every new means of its comborment.

The man who facetionsly suggested 'raising the mortgage on the farm with dynamite' did not himself appreciate the wisdom contained in idle words. Thousands of farmers are actually 'raising' the mortgage and ceasing to pay taxes on unproductive land, not by dodging the tax collector but making the uncultivatible land tillable by using dynamite to remove the stumps and boulders, blast the hardpan and drain the swampy sections by digging ditches or breaking up the impervious stratum

dynamite to remove the stumps and boulders, blast the hardpan and drain the swampy sections by digging ditches or breaking up the impervious stratum which prevents natural draimage from flowing off through the underlying sand or gravel.

Land made infertife by shale, conglomerate, or hard clay, is transformed into highly productive orchard soil by the dynamite blast. The barren trees in old orchards given a new lease on life by the loosening of the hard-packed earth which virtually strangles their roots, revive as by megic.

Fruit trees given the right sort of start in life by being planted in holes dug with dynamite, show a growth of sixteen feet in the same period of time that their neighbors, set in spade-dig holes, require for an eight foot development. A three-fold yield of fruit is the frequent result of following the dynamite method in fruit tree planting.

The digging of holes for a thousand truit trees by the usual means is an undertaking that one would naturally consider as being something more than a day's work for two men. But by the labor involved is the punching of holes in the earth with an iron bar and loosen the earth but they annihilate the underground army of grubs and insects lying in wait to feed on the tends and other earth-dwelling animals to

ILLUSTRATED SUNDAY MAGAZINE.

1-c-1-g-h—Thank you. I'll hold the line."

Now there will be given what Stransleigh knew he said, and supposed that Mackeller heard, and later will be shown the mistake that arose.

"That you," Peter? How are you?"

"Oh, first rate, when you linked your fortunes with mine."

"Well, then, nows a good time to examine it."

"Well, then, nows a good time to exercit new your fortunes with mine."

"Well, then, nows a good time to exercit new you linked your fortunes with mine."

"That you can the come in with me on the formal and examine it."

"I thought there weren't any unand examine it."

"I thought there wires.

"I thought there weren't any unand it is been, if anything, over-prospected, while of excellent mining engineers."

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"I thought there weren't any unand it." is that so? I, of course, know noth-having have been taken up long ago.

"It is that so? I, of course, know noth-having have been taken up long ago.

"I the dimensation did not to down its impossible. Stranleigh, but by a curious coincidence.

"I will ge into comming about her. If will early

while."
"I thought there weren't any undeveloped gold-mines in that region it's been, if anything, over-prospected, and I'm nearly certain all lands worth having have been taken up long ago."
"Is that so," I, of course, know noth-

"Is that so? I, of course, know n ing of the district. Still, I'll take

(To be Concluded Next Sunday.)

By Samuel Wesley Long



Dynamiting a Huge Stump

lynamite affords the cheapst and most effective means of exterm-

est and most effective means of exterminating them.

Since the advent of dynamite in farming, the farmer familiar with the explosive no longer risks plow points on the rocks and boulders, nor walks many unnecessary rods plowing round the obstruction—he simply slits the paper of a dynamite cartridge and places the explosive in a mass on top of the rock, userts a blasting cap and fuse, lights it and instantly he has a line lot of small sized stone for foundations or road building.

dynamite used in almost precisely the same manner as for subsoliting. When one deals with figures like ave-hundred millions, it requires somewhat of a stretch of imagination to fully comprehend their enormity. Those figures represent, in round numbers, the acres of land actually under cultivation in the United States. Yet, statistics show that in three states alone, there are 31,862,945 acres, or nearly twenty per cent, of the total cultivated land of the whole country, whose cultivation is blocked by stumps. In many other states a similar condition exists, All this land can and likely will be brought under cultivation by the use of dynamite.

The prediction is made that dynamite will make a new New England. The "abandened farms" with their boulder dotted fields, will, according to the views of students of dynamike's regenerative powers of rechristened "dynamited farms."

The removal of boulders with dynamite is extremely simple and requires about the least technical knowledge of the explisives uses. For the purpose, three methods are followed —"med-capping." "smakeholing," and "block-holling."

The mud-capping operation is the most generally used though it rejudices more dynamite than block holling. For mud-capping the dynamite is removed from the paper cartridge and placed in a lump on the rock at the point where one would naturally hit the localder if attempting to rupture it with a selegehammer. A blasting cap with fuse attached is placed in the center of the mass which is then covered with six inches of mosts clay. Snake-holling consists of punching a slanting hole with a crowbar, under a flat side of the rock, inserting a cartridge primed with cap and fase and filling the hole with sand or earth. Elock-holling requires the drilling of a hole ten or twenty inches deep into the rock. This method, while the

and filling the hole with sand or earth.

Elock-holling requires the drilling of
a hole ten or twenty inches deep into
the rock. This method, while the
slowest, is the most positive and effective and is almost invariably used
where the boulder weighs ten or more
tons. The location of the hole is determined by the size and grain of the rock.

mined by the size and grain of the rock. The unprecedented interest that has been aroused in irrigation will soon be exceeded by the interest in "farming with dynamite," for the reason that the aggregate benefits to farming that the use of dynamite will effect, are many times greater than those to be secured by irrigation. This is due to the fact that there is more land that can be improved by dynamite than there is to be irrigated and because it is cheaper.

The United States government, the governments of several individual States, the great railroads, and many agricultural colleges, are using every means to develop and spread this new

states, the great railroads, and many agricultural colleges, are using every means to develop and spread this new gospel of farming. Through these agencies and by experiments by farmers, the groundless fear of dynamite is rapidly disappearing, as the fact is being daily demonstrated that the brands of dynamite made for farm uses, are much safer to handle and use than is ordinary generoider. ordinary gunpowder

Once the possibilities of dynamite are generally understood and the needless fear of the explosive dissipated the way will be opened to a doubling of the present cultivated area of this, the greatest agricultural country in the